

ABSTRACT

A PCMCIA card has a plastic top panel and a metal bottom panel which are configured to interconnect using ultrasonic welding. The top panel has slots along its perimeter, and the bottom panel has tabs with barbs that are received in the slots. Upon application of sufficient energy, portions of the plastic top panel flow around the barbs, thereby anchoring the barbs in the plastic and preventing separation of the plastic and metal panels. This configuration allows the top panel to be made from aesthetically pleasing moldable materials while avoiding problems associated with conventional metal-to-plastic construction.